

## REMARKS

In a Non-final Office Action dated 14 June 2005, the Examiner rejected all of the pending claims, Claims 14 through 24 as being obvious over Chervanak et al. (U.S. 5,558,692). In response to the Office Action dated June 14, 2005, Applicant hereby amends the independent claim, Claim 14, and some of the dependent claims, specifically, Claims 15, 16, 22, 23, and 24. The claims as amended reflect an averaging mechanism as set forth in the specification in several passages including the following:

In accordance with further aspects of the invention, an averaging filter is configured to receive the pattern from the pattern recognizer. The averaging filter designates a first number representing the number of instantaneous values in the pattern and designates a second number less than the first number and greater than one. The second number used to create a pane for performing a rolling averaging. The averaging engine performs a rolling averaging of the instantaneous values in the pattern. The rolling averaging results in a plurality of averaged values. The averaging filter substitutes the averaged values for the instantaneous values in the pattern such that the comparer will select a least averaged value and a greatest averaged value. The arithmetic engine then computes a difference.

(Page 3, Lines 18-28)

The Examiner specifically indicates that Chervanak does not teach an averaging method. Rather than to claim an averaging method based upon averaging resulting runouts as the Examiner found to be obvious, the claims as currently drafted rather define a number of panes, each pane being configured to represent a single rotation of the tool and includes a plurality of digital measurements set forth in a temporally sequential series. As set forth, the processor is configured to develop panes, a processor not taught in the prior art.

If there are any questions regarding this application, or any matters that may be handled by telephone conference, the Examiner is kindly invited to telephone the undersigned attorney.

Respectfully submitted,

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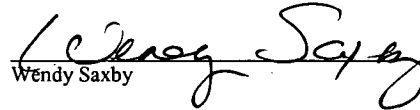
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**MAIL CERTIFICATE**

I hereby certify that this communication is being deposited with the United States Postal Service via First Class Mail 37 C.F.R. § 1.08 on the date indicated below addressed to: MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

October 14, 2005  
Date of Deposit

  
Wendy Saxby